

Product datasheet

Anti-TPA Tissue Plasminogen Activator antibody ab14198

★★★★☆ 1 Abreviews 3 References 2 图像

概述

产品名称	Anti-TPA组织Plasminogen活化剂抗体
描述	山羊多克隆抗体to TPA组织Plasminogen活化剂
宿主	Goat
特异性	There were no cross reactivities obtained with human uPA and PAI2.
经测试应用	适用于: ELISA, IHC-Fr, IHC-P
种属反应性	与反应: Rat, Human
免疫原	Full length native protein (purified) (Human).

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: None Constituents: Whole Serum
纯度	Whole antiserum
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab14198** in the following tested applications.

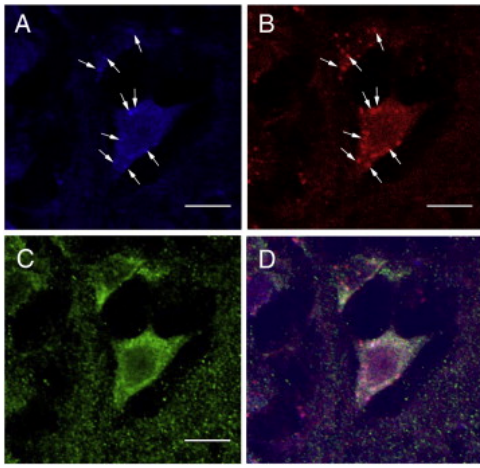
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ELISA		Use at an assay dependent dilution.
IHC-Fr	★★★★☆	1/50 - 1/100.
IHC-P		1/50. Pretreatment with 0.05% Pronase E for 20 minutes is recommended.

靶标

功能	Converts the abundant, but inactive, zymogen plasminogen to plasmin by hydrolyzing a single Arg-Val bond in plasminogen. By controlling plasmin-mediated proteolysis, it plays an important role in tissue remodeling and degradation, in cell migration and many other physiopathological events. Play a direct role in facilitating neuronal migration.
组织特异性	Synthesized in numerous tissues (including tumors) and secreted into most extracellular body fluids, such as plasma, uterine fluid, saliva, gingival crevicular fluid, tears, seminal fluid, and milk.
疾病相关	Note=Increased activity of TPA results in increased fibrinolysis of fibrin blood clots that is associated with excessive bleeding. Defective release of TPA results in hypofibrinolysis that can lead to thrombosis or embolism.
序列相似性	Belongs to the peptidase S1 family. Contains 1 EGF-like domain. Contains 1 fibronectin type-I domain. Contains 2 kringle domains. Contains 1 peptidase S1 domain.
结构域	Both FN1 and one of the kringle domains are required for binding to fibrin. Both FN1 and EGF-like domains are important for binding to LRP1. The FN1 domain mediates binding to annexin A2. The second kringle domain is implicated in binding to cytokeratin-8 and to the endothelial cell surface binding site.
翻译后修饰	The single chain, almost fully active enzyme, can be further processed into a two-chain fully active form by a cleavage after Arg-310 catalyzed by plasmin, tissue kallikrein or factor Xa. Differential cell-specific N-linked glycosylation gives rise to two glycoforms, type I (glycosylated at Asn-219) and type II (not glycosylated at Asn-219). The single chain type I glycoform is less readily converted into the two-chain form by plasmin, and the two-chain type I glycoform has a lower activity than the two-chain type II glycoform in the presence of fibrin. N-glycosylation of Asn-152; the bound oligomannosidic glycan is involved in the interaction with the mannose receptor. Characterization of O-linked glycan was studied in Bowes melanoma cell line.
细胞定位	Secreted > extracellular space.

图片

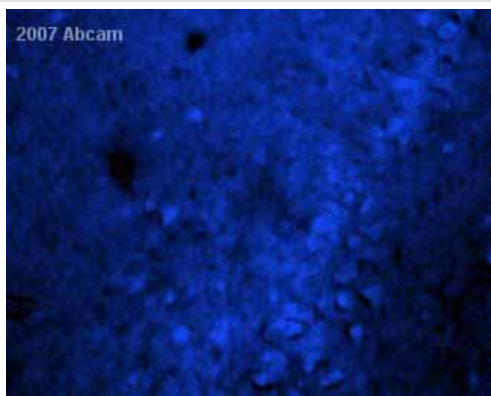


Immunohistochemistry (Frozen sections) - Anti-TPA
Tissue Plasminogen Activator antibody (ab14198)

Image from Lohman RJ et al., Neurobiol Dis. 2008;30(1):84-93. Fig 2.; doi: 10.1016/j.nbd.2007.12.010 with permission from Elsevier.

ab14198 staining TPA Tissue Plasminogen Activator (A - blue) in Rat hippocampal/thalamic region tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with paraformaldehyde. Tissue was incubated in pre-block solution (10% normal horse serum in antibody diluent (PBS + 0.1% Triton X-100)) for 1 hour. Samples were incubated with primary antibody (1/50 in PBS + pre-block solution) for 16 hours. B - trypsin (red), C - PAR₂ (green), D - merge.

TPA Tissue Plasminogen Activator and Trypsin co-localise.



Immunohistochemistry (Frozen sections) - Anti-TPA
Tissue Plasminogen Activator antibody (ab14198)

This image is courtesy of an Abreview submitted by Mr Rink-Jan Lohman

ab14198 at 1/50 staining rat brain hippocampus pyramidal neuron tissue sections by IHC-Fr. The tissue was blocked with horse serum and incubated for 16 hours with the antibody. An AMCA conjugated donkey antibody was used as the secondary.

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